TPA9419YXA

General Information

Model	TPA9419YXA	Refrigerant	R-134a
Test Condition	ARI	Performance Test Voltage	115V ~ 60HZ
Return Gas	4.4°C (40°F) RETURN GAS	Motor Type	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
0	Btu/h	1580	1450	1330	1200	1080	956	832
	Watts	287	291	294	297	300	303	306
	Amps	5.71	5.73	5.74	5.76	5.77	5.79	5.81
	Lb/h	22.5	21.5	20.5	19.4	18.4	17.4	16.3
5	Btu/h	1830	1690	1550	1400	1260	1120	972
	Watts	302	306	311	316	321	325	330
	Amps	5.79	5.81	5.83	5.85	5.88	5.90	5.92
	Lb/h	25.9	24.8	23.7	22.5	21.4	20.3	19.1
10	Btu/h	2110	1950	1780	1620	1460	1300	1130
	Watts	316	323	329	335	341	347	354
	Amps	5.87	5.90	5.92	5.95	5.98	6.01	6.04
	Lb/h	29.7	28.5	27.3	26.1	24.9	23.7	22.4
15	Btu/h	2410	2230	2040	1860	1680	1500	1310
	Watts	331	339	347	355	363	370	378
	Amps	5.95	5.99	6.02	6.05	6.09	6.13	6.16
	Lb/h	33.9	32.7	31.4	30.1	28.8	27.5	26.2
20	Btu/h	2730	2530	2320	2120	1920	1720	1520
	Watts	346	356	365	375	384	393	402
	Amps	6.04	6.08	6.12	6.16	6.20	6.24	6.28
	Lb/h	38.6	37.3	35.9	34.6	33.2	31.8	30.4
25	Btu/h	3070	2850	2630	2400	2180	1960	1740
	Watts	361	373	384	395	406	417	427
	Amps	6.13	6.18	6.22	6.27	6.31	6.36	6.41
	Lb/h	43.6	42.2	40.8	39.4	38.0	36.5	35.1
30	Btu/h	3430	3190	2950	2710	2470	2230	1980
	Watts	377	389	402	415	427	440	452
	Amps	6.23	6.28	6.33	6.38	6.43	6.49	6.54
	Lb/h	48.9	47.5	46.0	44.6	43.1	41.6	40.1

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.566822E+03	2.605756E+02	5.594703E+00	3.058122E+01
C2	8.023702E+01	3.396438E-01	5.184805E-03	7.662570E-01

C3	-1.238662E+01	3.295750E-01	1.505986E-03	-1.019410E-01
C4	4.249929E-01	6.509084E-03	6.113127E-05	8.337977E-03
C5	-3.895941E-01	3.092864E-02	1.243475E-04	-1.600844E-03
C6	2.889904E-04	1.802919E-04	-1.468654E-06	2.534720E-05
C7	4.805282E-04	-1.408120E-04	1.048063E-06	-3.529404E-05
C8	-1.832024E-04	4.982837E-05	-3.625512E-07	1.415448E-05
C9	1.720763E-05	-4.195117E-06	2.949779E-08	-1.450183E-06
C10	-2.492431E-06	-1.390710E-06	1.138135E-08	-1.799871E-07

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

TPA9419YXA

General Information

Model	TPA9419YXA	Refrigerant	R-134a
Test Condition	ARI	Performance Test Voltage	115V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
20	Btu/h	2840	2650	2450	2250	2050	1840	1630
	Watts	342	352	363	373	383	394	405
	Amps	6.05	6.09	6.13	6.18	6.22	6.27	6.31
	Lb/h	37.8	36.5	35.2	33.8	32.5	31.0	29.5
25	Btu/h	3220	3000	2780	2560	2340	2120	1890
	Watts	361	373	384	396	408	419	431
	Amps	6.11	6.17	6.22	6.28	6.33	6.39	6.45
	Lb/h	42.5	41.2	39.8	38.5	37.1	35.8	34.3
30	Btu/h	3620	3380	3130	2890	2650	2410	2170
	Watts	380	393	406	419	432	445	458
	Amps	6.17	6.24	6.32	6.39	6.46	6.53	6.60
	Lb/h	47.7	46.4	45.0	43.7	42.3	40.9	39.5
35	Btu/h	4060	3790	3520	3250	2990	2730	2460
	Watts	398	413	427	442	456	471	485
	Amps	6.23	6.32	6.42	6.50	6.59	6.68	6.76
	Lb/h	53.6	52.1	50.7	49.4	48.0	46.6	45.2
40	Btu/h	4540	4240	3940	3650	3360	3070	2780
	Watts	415	432	448	464	480	496	512
	Amps	6.29	6.40	6.51	6.62	6.73	6.83	6.93
	Lb/h	60.1	58.6	57.1	55.6	54.2	52.8	51.4
45	Btu/h	5070	4730	4400	4080	3760	3440	3130
	Watts	431	450	468	486	503	521	538
	Amps	6.34	6.48	6.61	6.74	6.86	6.98	7.10
	Lb/h	67.3	65.7	64.1	62.5	61.0	59.6	58.1
50	Btu/h	5640	5270	4900	4550	4200	3850	3510
	Watts	446	467	487	507	526	545	564
	Amps	6.38	6.54	6.70	6.85	7.00	7.14	7.28
	Lb/h	75.2	73.5	71.8	70.1	68.5	67.0	65.4

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.478725E+03	2.268811E+02	6.023411E+00	3.432775E+01
C2	8.451323E+01	1.824029E+00	-1.789523E-02	4.635438E-01

C3	-1.025596E+01	4.440455E-01	-2.025251E-03	-1.193296E-01
C4	6.294942E-01	-7.873628E-03	8.071728E-05	1.159041E-02
C5	-4.739272E-01	2.902727E-02	3.181818E-04	-5.977258E-04
C6	-4.198286E-04	9.005762E-06	2.564742E-06	2.287304E-05
C7	5.953635E-03	-2.576394E-04	-4.329626E-06	5.443543E-05
C8	-5.511892E-03	2.343399E-04	3.860702E-06	-5.191202E-05
C9	1.597609E-03	-6.668486E-05	-1.078764E-06	1.546223E-05
C10	-1.394756E-04	5.786333E-06	7.304311E-08	-1.595234E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature